ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. NO. PROJECT NAME 02AH35 Cheshire Monitoring study							NO				Activity Code: 12345
SAMPLER	S: (Print	Name a	and .	Sign)		NO.		e//	//	
STA. NO. DATE TIME M A STATION LOCATION B							OF	a l			// AIR 20020043
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DO1	2/25	00:00	Х		GHS		1				5-340164 1 to 1
SO1	2/25	00:00	Х		GHS		1				5-340163 1 to 1
SO2	2/25	00:00	Х		RVHS		1				5-340165 1 to 1
SO3	2/25	00:00	Х		ADDAVILLE		1				5-340166 1 to 1
											6HS#3012, Pata AUT = 19.45
											GHS#3012, PSTg AUg = 19.45 GHS#3013, PSTg AUg > 19.1
											RUHS# 3009, Pary Aug = 17.4
											Addaville # 3011 Para Hug = 18.85
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Project Name CHESHIRE MUNITURING STUDY 90101A Project No. AIR 2002 0043 ARRIVAL DATE: 2/28/2002 DUE DATE: 3/21/2002 02AH35 Sampler Mike murphy Cooler ID 02AH351 Page 5-140040 Station Date / Time Grab / Comp **No Bottles** Tag Numbers Sample ld: Station Location Grab Com 02AH35DO1 DO1 25/02/2002 00:00:00 GHS 1 5-340164 1 to 1 Bottle No. 1 **Parameter** PM10 Sample Id: Date / Time Station Grab / Comp **Station Location** No Bottles Tag Numbers Grab Com 02AH35SO1 SO1 25/02/2002 00:00:00 GHS 1 5-340163 1 to 1 Bottle No. **Parameter** PM10

Note: Could NOT Print complete page, Not some why!

SAMPLE I.D. PANAMUTIN DATE/TIME STATION WIGHTON HOUSE THE NUMBERS 1 5-340/165 170/ 2002 AH35 502 PM10 25/02/2002 GRAB RVHS 1 5-340/166 170/ 2002 AH35 SU3 PM10 25/02/2002 GRAB ADDAVILLE 1 5-340/166 170/

FROM:

SOUTHEAST DISTRICT OFFICE

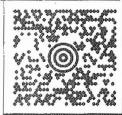
(740) 385-8501 OHIO EPA

2195 E. FRONT STREET LOGAN OH 43138-8637

SHIP TO:

WILLIAM SARGENT JR. USEPA CENTRAL REGIONAL LABORATORY 10 FLOOR 536 SOUTH CLARK STREET CHICAGO IL 60605

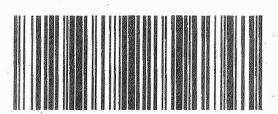
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EXTREMELY URGENT

CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0043 Cheshire Monitoring Study

- Chain-of-Custody
- Analysis Request Form(s)*
- Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Peer Reviewer
 - Environmental Data Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Aylua Auffin 3/1/05

Data Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

MAR 0 7 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Edgar Santiago, Chemist & &

Region 5 Central Regional Laboratory

To:

ttached are the results for:

CHESHIRE MONITORING STUDY

CRL data set number: 20020043

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH35D01, 2002AH35S01, 2002AH35S02,

and 2002AH35S03.

Data Management Coordinator and Date Received
Date Transmitted: / / /
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C
Received by and Date
B G
e e e e e e e e e e e e e e e e e e e
Comments:

Data Set Number:	20020043	Parameter:	Suspended Particles
Facility Name:	CHESHIRE MONIT	ORING STUDY	
Study Name:	CHESHIRE MONIT	ORING STUDY	
Date of Narrative:	03/06/2002	Analyst:	ES
		Signature:	() ()

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on February 28, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6279959	2002AH35D01	5-340164
Q6280094	2002AH35S01	5-340163
Q6280095	2002AH35S02	5-340165
Q6279958	2002AH35S03	5-340166

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 03/05/2002 and was completed on 03/06/2002.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

A small tear was observed along the corner in exposed filter Q6280094 (CRL sample I.D number 2002AH35S01). Suspended particle results for that sample could be biased low due to loss of particles or filter materials. A probable cause for those tears are activities related to removal of exposed filters from the individual sampling equipment in the field. Use the data with caution.

Exposed filter Q6279959, Q6280095 and Q6279958 (CRL sample I.D numbers 2002AH35D01, 2002AH35S02 and 2002AH35S03) had no tear or holes. The results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 02/25/2002 LAB ARRIVAL DATE: 02/28/2002 DUE DATE: 03/21/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020043 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)	·	
1	2002AH35D01	GUIDING HANDS SCHOOL	0.1214		
2	2002AH35S01	GUIDING HANDS SCHOOL	0.1145	· · · · · · · · · · · · · · · · · · ·	×
3	2002AH35S02	RVHS	0.0365	E9	
4	2002AH35S03	ADDAVILLE	0.0728		
DATE (OF ANALYSIS		03/05-06/2002		
A	NALYST		6.3		15

Reviewed by:	FAH	Date: 3	17/	2002
•				

Page 1 of 1

ENVIRONMENTAL PROTECTION AGENCY REGION V CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 02/25/2002 LAB ARRIVAL DATE: 02/28/2002 DUE DATE: 03/21/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020043 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH35D01	GUIDING HANDS SCHOOL	0.1214	***************************************		
2	2002AH35S01	GUIDING HANDS SCHOOL	0.1145	7	I mumiganesi	*
3	2002AH35S02	RVHS	0.0365			
4	2002AH35S03	ADDAVILLE	0.0728			
DATE OF ANALYSIS			03/05-06/2002	<		
A	NALYST		8.3		11.07 - 140.0 - 11.05.0 -	

Reviewed b	v:	FA	Date:_	3	17	/	2002
_	*						

Page 1 of 1

Office of Enforcement CHAIN OF CUSTODY RECORD

PROJ. 02AH3	10	PROJEC Cheshire			ng study m	1k	NO.				Activity Code: 12345
SAMPLER Mike murp					ide Muzyez	# S	OF	n a ly	t ^e //		// Air 20020043
STA. NO.	DATE	TIME	COMP	GRAB	~ "	ON LOCATION	CON- TAINERS	n			TAG NUMBERS
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SO1	2/25	00:00	Х		GH\$		1				5-340163 1 to 1
SO2	2/25	00:00	Х		RVHS		1				5-340165 1 to 1
SO3	2/25	00:00	Х		ADDAVILLE	- A-	1				5-340166 1 to 1
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Project No.		Name CHESHIRE			7010117	
02AH35	AIR	2002 0043 An	CRIVAL DATE	: 2/28/2WZ	DUE DATE: 3/	2//2002
Sampler		le .			•	
Mike murphy						
Cooler ID	02AH351	Page 5-140	040		1	
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH35DO1	DO1	25/02/2002 00:00:00	○ Grab Com	GHS .	1	5-340164 1 to 1
Bottle	No. 1	Parameter PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH35SO1	SO1	25/02/2002 00:00:00	Grab Com	GHS	1	5-340163 1 to 1
Bottle	No. 1	Parameter	740			(i)
		PM10	18			

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SAMPLE I.D.	PANAMOTEN	DATE/TIME	*	STATION LUCATION		
2002 AH 35:502	pM10	25/02/2002	GRAB	RVHS	1	5-340/65 170/
2/107 AH35 SU3	pMIU	25/02/2002	GRAG	ADDAVILLE	į	5-3401661701

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page 9 of 9

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

_	2002 0043	Facility: CHESIRE AIR M	10NITORING	
Parameter:	QM 10	CRL.SOP: ALG-047	VEC	NO
D D D 1		kage Overview:	YES	NO
Raw Data Pack			-	
Results Reporte				
Special Reques	sts Done?	**************************************	N/A	
Calculations Cl	hecked?			
Calibration No	t Exceeded?		MA	
Manual Peak Ir	ntegration performed? C	Circle one IC or GC and Check	N/A	
Field QC Chec	ked?		NA	
		Quality Control:	±	
Holding Times	Met?	4	MA	
Preservation Cl	hecked?	4	MA	11.00.0000
Proper Digestion	on Verified?		N/A	
Initial Instrume	ent Performance Checks	Verified?		
Calibration Ver	rification Checked?		l W/A	
Sample-Specifi	ic QC (Internal Standard	ds or Analytical Spikes) Okay?	NA	
Matrix QC Che	ecked?		N/A	
Digestion Blan	ks Checked?	\$	NA	
Spiked Blank (Checked?		J/A	
LCS (if applica	able) Checked?	1/4/00/03	WA	
QCS (if applica	able) Checked?		NA	***************************************
		Final Check		
Technical Revi	iew Done?	2.5		
Narrative Com	plete?	7 7		
Analyst:	E.S.	Peer Reviewer: Fight		
Date:	3/6/2002	Date: 3/7/2002	Two siles is a second	
	ı	Comments Attached? (Y/N)		

Data Set Number:	20020043	Parameter:	Suspended Particles
Facility Name:	CHESHIRE MONITO	1000 March 1984 M	
Study Name:	CHESHIRE MONITO	RING STUDY	
Date of Narrative:	03/06/2002	Analyst:	<u>ES</u>
0		Signature:	E.8_

ANALYSIS CASE NARRATIVE

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Q6280094	2002AH35S01	5-340163		
Q6280095	2002AH35S02	5-340165		
Q6279958	2002AH35S03	5-340166		

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Exposed filter Q6279959, Q6280095 and Q6279958 (CRL sample I.D numbers 2002AH35D01, 2002AH35S02 and 2002AH35S03) had no tear or holes. The results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020042- 20020043

Date of Analysis 03/05-06/2002

Analyst:

ES

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences	
Actual (g)	Balanced (g)	(g)	
		Limit +/-0.0005 g	
1.0000	1.0001	-0.0001	501 00000000000000000000000000000000000
2.0000	2.0000	0.0000	
5.0000	4.9999	0.0001	

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Q6280124	2002AH34S02	03/06/02	Analyst 1	4.4085
Q6280124	2002AH34S02	03/06/02	Analyst 2	4.4084
Differences (Limit +/- 5 mg)			0.0001
Q6279958	2002AH35S03	03/06/02	Analyst 1	4.4328
Q6279958	2002AH35S03	03/06/02	Analyst 2	4.4328
Differences (Limit +/- 5 mg)			0.0000

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
							1				:
Data set N	umber 20020043	3.5				}					
Q6279959	2002AH35D01	02/25/02	Guiding Hands School	3013	19.10		0.00	4.3471	4.4685	0.1214	ERR
Q6280094	2002AH35S01	02/25/02	Guiding Hands School		19.45		0.00	4.3557	4.4702	0.1145	ERR
	2002AH35S02	02/25/02	RVHS	3009	19.40	descent.	0.00	4.3828	4.4193	0.0365	ERR
200	2002AH35S03	02/25/02	Q-1	3011	18.85	**	0.00	4.3600	4.4328	0.0728	ERR

2.0000

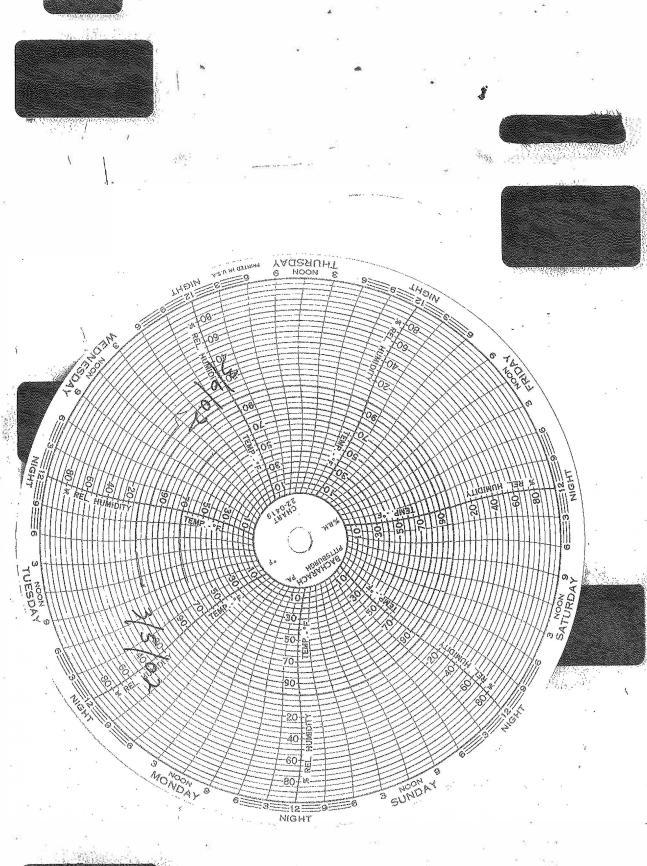
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	96280087	4.3802		4.3952	4.3954	77 fg 2 - 13 <u>1</u>
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US EPA Region 5 Field Sample

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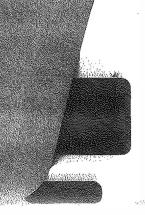
Sampler M. J. Musy

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Preservative None Sample ID 02AH35SO1

20020018 Parameters PM10



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5-340165-1 20020048 Sampler M.J. Munn Preservative Sample ID 02AH35SO2 Parameters SAMPLE WT LONDYEN FINAL WI

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